# BRUHAT BENGALURU MAHANAGARA PALIKE

**Name of Work:** Filling of Potholes in Ward No.17

| | Job no:- | | | | | Est .Cost Rs. | | 30.00 | Lakhs |
|---|---|---|---|---|---|---|---|---|---|
| Sl No | Description of Items | Unit | No | L (M) | B (M) | D (M) | Qty | Rate | Amount |
| 1 | KSRRB M300-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19 | | | | | | | | |
| | | Cum | | | | | | | |
| | **potholes** | | | | | | | | |
| | W0307 | | 13 | 3.90 | 2.20 | 0.45 | 50.19 | | |
| | W0297 | | 15 | 3.80 | 3.20 | 0.45 | 82.08 | | |
| | W0186 | | 13 | 4.20 | 2.80 | 0.45 | 68.80 | | |
| | W0435 | | 9 | 4.20 | 3.10 | 0.45 | 52.73 | | |
| | W0332 | | 15 | 3.00 | 2.50 | 0.45 | 50.63 | | |
| | W0338 | | 10 | 3.20 | 2.80 | 0.45 | 40.32 | | |
| | W0473 | | 15 | 3.00 | 2.10 | 0.45 | 42.53 | | |
| | W0477 | | 12 | 3.50 | 3.00 | 0.45 | 56.70 | | |
| | W0387 | | 9 | 3.20 | 2.50 | 0.45 | 32.40 | | |
| | W0152 | | 11 | 3.00 | 2.90 | 0.45 | 43.07 | | |
| | W0024 | | 13 | 2.90 | 2.60 | 0.45 | 44.11 | | |
| | W0051 | | 10 | 3.10 | 2.90 | 0.45 | 40.46 | | |
| | W0006 | | 12 | 3.80 | 3.20 | 0.45 | 65.66 | | |
| | W0124 | | 13 | 3.50 | 2.80 | 0.45 | 57.33 | | |
| | W0197 | | 10 | 3.20 | 2.50 | 0.45 | 36.00 | | |
| | | | | | | | **762.99** | **84.42** | **64411.87** |
| | Basic Rate | 41.00 | | | | | | | |
| | Add for lead for earth (1.28 Tonne / Cum) for 16km | 40.96 | | | | | | | |
| | Area Weightage @ 6% | 2.46 | | | | | | | |
| | Total | **84.42** | | | | | | | |
| 2 | Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19 | | | | | | | | |
| | | Cum | | | | | | | |
| | **potholes** | | | | | | | | |
| | W0307 | | 13 | 3.90 | 2.20 | 0.15 | 16.73 | | |
| | W0297 | | 15 | 3.80 | 3.20 | 0.15 | 27.36 | | |
| | W0186 | | 13 | 4.20 | 2.80 | 0.15 | 22.93 | | |
| | W0435 | | 9 | 4.20 | 3.10 | 0.15 | 17.58 | | |
| | W0332 | | 15 | 3.00 | 2.50 | 0.15 | 16.88 | | |
| | W0338 | | 10 | 3.20 | 2.80 | 0.15 | 13.44 | | |
| | W0473 | | 15 | 3.00 | 2.10 | 0.15 | 14.18 | | |
| | W0477 | | 12 | 3.50 | 3.00 | 0.15 | 18.90 | | |
| | W0387 | | 9 | 3.20 | 2.50 | 0.15 | 10.80 | | |
| | W0152 | | 11 | 3.00 | 2.90 | 0.15 | 14.36 | | |

| Sl No | Description of Items | Unit | No | L (M) | B (M) | D (M) | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | W0024 | | 13 | 2.90 | 2.60 | 0.15 | 14.70 | | |
| | W0051 | | 10 | 3.10 | 2.90 | 0.15 | 13.49 | | |
| | W0006 | | 12 | 3.80 | 3.20 | 0.15 | 21.89 | | |
| | W0124 | | 13 | 3.50 | 2.80 | 0.15 | 19.11 | | |
| | W0197 | | 10 | 3.20 | 2.50 | 0.15 | 12.00 | | |
| | | | | | | | **254.33** | **1994.92** | **507370.00** |
| | Basic Rate | 1882.00 | | | | | | | |
| | Area Weightage @ 6% | 112.92 | | | | | | | |
| | Total | **1994.92** | | | | | | | |
| 3 | KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19 | | | | | | | | |
| | **potholes** | Cum | | | | | | | |
| | W0307 | | 13 | 3.90 | 2.20 | 0.23 | 25.65 | | |
| | W0297 | | 15 | 3.80 | 3.20 | 0.23 | 41.95 | | |
| | W0186 | | 13 | 4.20 | 2.80 | 0.23 | 35.16 | | |
| | W0435 | | 9 | 4.20 | 3.10 | 0.23 | 26.95 | | |
| | W0332 | | 15 | 3.00 | 2.50 | 0.23 | 25.88 | | |
| | W0338 | | 10 | 3.20 | 2.80 | 0.23 | 20.61 | | |
| | W0473 | | 15 | 3.00 | 2.10 | 0.23 | 21.74 | | |
| | W0477 | | 12 | 3.50 | 3.00 | 0.23 | 28.98 | | |
| | W0387 | | 9 | 3.20 | 2.50 | 0.23 | 16.56 | | |
| | W0152 | | 11 | 3.00 | 2.90 | 0.23 | 22.01 | | |
| | W0024 | | 13 | 2.90 | 2.60 | 0.23 | 22.54 | | |
| | W0051 | | 10 | 3.10 | 2.90 | 0.23 | 20.68 | | |
| | W0006 | | 12 | 3.80 | 3.20 | 0.23 | 33.56 | | |
| | W0124 | | 13 | 3.50 | 2.80 | 0.23 | 29.30 | | |
| | W0197 | | 10 | 3.20 | 2.50 | 0.23 | 18.40 | | |
| | | | | | | | **389.97** | **2001.28** | **780447.57** |
| | Basic Rate | 1888.00 | | | | | | | |
| | Area Weightage @ 6% | 113.28 | | | | | | | |
| | Total | **2001.28** | | | | | | | |
| 4 | KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 158/ Item No. 21.6/ PWD SR 2018-19 Issue Rate | | | | | | | | |
| | **potholes** | Sqm | | | | | | | |
| | W0307 | | 13 | 3.90 | 2.20 | | 111.54 | | |
| | W0297 | | 15 | 3.80 | 3.20 | | 182.40 | | |
| | W0186 | | 13 | 4.20 | 2.80 | | 152.88 | | |
| | W0435 | | 9 | 4.20 | 3.10 | | 117.18 | | |
| | W0332 | | 15 | 3.00 | 2.50 | | 112.50 | | |
| | W0338 | | 10 | 3.20 | 2.80 | | 89.60 | | |

| Sl No | Description of Items | Unit | No | L (M) | B (M) | D (M) | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | W0473 | | 15 | 3.00 | 2.10 | | 94.50 | | |
| | W0477 | | 12 | 3.50 | 3.00 | | 126.00 | | |
| | W0387 | | 9 | 3.20 | 2.50 | | 72.00 | | |
| | W0152 | | 11 | 3.00 | 2.90 | | 95.70 | | |
| | W0024 | | 13 | 2.90 | 2.60 | | 98.02 | | |
| | W0051 | | 10 | 3.10 | 2.90 | | 89.90 | | |
| | W0006 | | 12 | 3.80 | 3.20 | | 145.92 | | |
| | W0124 | | 13 | 3.50 | 2.80 | | 127.40 | | |
| | W0197 | | 10 | 3.20 | 2.50 | | 80.00 | | |
| | | | | | | | **1695.54** | **28.62** | **48526.35** |
| | Basic Rate | 27.00 | | | | | | | |
| | Area Weightage @ 6% | 1.62 | | | | | | | |
| | Total | **28.62** | | | | | | | |
| 5 | KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Page No. 160/ Item No. 21.17.6/ PWD SR 2018-19 Issue Rates | | | | | | | | |
| | **potholes** | Cum | | | | | | | |
| | W0307 | | 13 | 3.90 | 2.20 | 0.05 | 5.58 | | |
| | W0297 | | 15 | 3.80 | 3.20 | 0.05 | 9.12 | | |
| | W0186 | | 13 | 4.20 | 2.80 | 0.05 | 7.64 | | |
| | W0435 | | 9 | 4.20 | 3.10 | 0.05 | 5.86 | | |
| | W0332 | | 15 | 3.00 | 2.50 | 0.05 | 5.63 | | |
| | W0338 | | 10 | 3.20 | 2.80 | 0.05 | 4.48 | | |
| | W0473 | | 15 | 3.00 | 2.10 | 0.05 | 4.73 | | |
| | W0477 | | 12 | 3.50 | 3.00 | 0.05 | 6.30 | | |
| | W0387 | | 9 | 3.20 | 2.50 | 0.05 | 3.60 | | |
| | W0152 | | 11 | 3.00 | 2.90 | 0.05 | 4.79 | | |
| | W0024 | | 13 | 2.90 | 2.60 | 0.05 | 4.90 | | |
| | W0051 | | 10 | 3.10 | 2.90 | 0.05 | 4.50 | | |
| | W0006 | | 12 | 3.80 | 3.20 | 0.05 | 7.30 | | |
| | W0124 | | 13 | 3.50 | 2.80 | 0.05 | 6.37 | | |
| | W0197 | | 10 | 3.20 | 2.50 | 0.05 | 4.00 | | |
| | | | | | | | **84.78** | **6597.44** | **559311.17** |
| | Basic Rate | 6224.00 | | | | | | | |
| | Area Weightage @ 6% | 373.44 | | | | | | | |
| | Total | **6597.44** | | | | | | | |
| 6 | KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158/ Item No. 21.7/ PWD SR 2018-19 Issue Rate | | | | | | | | |
| | **potholes** | Sqm | | | | | | | |

| Sl No | Description of Items | Unit | No | L (M) | B (M) | D (M) | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | W0307 | | 13 | 3.90 | 2.20 | | 111.54 | | |
| | W0297 | | 15 | 3.80 | 3.20 | | 182.40 | | |
| | W0186 | | 13 | 4.20 | 2.80 | | 152.88 | | |
| | W0435 | | 9 | 4.20 | 3.10 | | 117.18 | | |
| | W0332 | | 15 | 3.00 | 2.50 | | 112.50 | | |
| | W0338 | | 10 | 3.20 | 2.80 | | 89.60 | | |
| | W0473 | | 15 | 3.00 | 2.10 | | 94.50 | | |
| | W0477 | | 12 | 3.50 | 3.00 | | 126.00 | | |
| | W0387 | | 9 | 3.20 | 2.50 | | 72.00 | | |
| | W0152 | | 11 | 3.00 | 2.90 | | 95.70 | | |
| | W0024 | | 13 | 2.90 | 2.60 | | 98.02 | | |
| | W0051 | | 10 | 3.10 | 2.90 | | 89.90 | | |
| | W0006 | | 12 | 3.80 | 3.20 | | 145.92 | | |
| | W0124 | | 13 | 3.50 | 2.80 | | 127.40 | | |
| | W0197 | | 10 | 3.20 | 2.50 | | 80.00 | | |
| | | | | | | | **1695.54** | **12.72** | **21567.27** |
| | Basic Rate | 12.00 | | | | | | | |
| | Area Weightage @ 6% | 0.72 | | | | | | | |
| | Total | **12.72** | | | | | | | |

7 KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause No. 507 of MORTH V revision & IRC-SP-53-2010. - using40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (30 mm to 45mm) with 5.4% CRMB 55 (Pg:162, It.No-21.23.6 PWD SR:2018-19)Issue Rates

| **potholes** | Cum | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| W0307 | | 13 | 3.90 | 2.20 | 0.04 | 4.46 | | |
| W0297 | | 15 | 3.80 | 3.20 | 0.04 | 7.30 | | |
| W0186 | | 13 | 4.20 | 2.80 | 0.04 | 6.12 | | |
| W0435 | | 9 | 4.20 | 3.10 | 0.04 | 4.69 | | |
| W0332 | | 15 | 3.00 | 2.50 | 0.04 | 4.50 | | |
| W0338 | | 10 | 3.20 | 2.80 | 0.04 | 3.58 | | |
| W0473 | | 15 | 3.00 | 2.10 | 0.04 | 3.78 | | |
| W0477 | | 12 | 3.50 | 3.00 | 0.04 | 5.04 | | |
| W0387 | | 9 | 3.20 | 2.50 | 0.04 | 2.88 | | |
| W0152 | | 11 | 3.00 | 2.90 | 0.04 | 3.83 | | |
| W0024 | | 13 | 2.90 | 2.60 | 0.04 | 3.92 | | |
| W0051 | | 10 | 3.10 | 2.90 | 0.04 | 3.60 | | |
| W0006 | | 12 | 3.80 | 3.20 | 0.04 | 5.84 | | |
| W0124 | | 13 | 3.50 | 2.80 | 0.04 | 5.10 | | |
| W0197 | | 10 | 3.20 | 2.50 | 0.04 | 3.20 | | |
| | | | | | | **67.82** | **7980.74** | **541266.56** |
| Basic Rate | 7529.00 | | | | | | | |
| Area Weightage @ 6% | 451.74 | | | | | | | |
| Total | **7980.74** | | | | | | | |

| Sl No | Description of Items | Unit | No | D (M) | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | **Sub Total** | | | | | | 2522900.79 |
| | **Tender Premium 5%** | | | | | | 126145.04 |
| | **GST 12%** | | | | | | 317885.50 |
| | **Third Party Inspection 1%** | | | | | | 30000.00 |
| | **Miscellaneous** | | | | | | 3068.68 |
| | **Total** | | | | | | 3000000.00 |

**CERTIFICATE**

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Consultants

**Asst Engineer**
Ward No- 17
BBMP

**Asst Executive Engineer**
Yeshwanthpur Sub-Division
BBMP

**Executive Engineer**
RR Nagara -Division
BBMP

ನಂ.: 10k ದಿನಾಂಕ: 20/6/2020
ರೂ. 30 lakhs (Thirty lakhs only)
ಅಂಮಾಜು ಪಟ್ಟಿಗೆ ಆದೇಶಾನುಸಾರ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ನಗರ ವಿಭಾಗ
ಬೆಂಗಳೂರು-72

**TECHNICAL SANCTION**

Rs: 30,00,000/- (Rs. Thirty lakh only) is accorded
under the head: P- 1771
By CE(R.R.N.), Pg. No. 26-27
Registered as CE (R.R.N) No S.No. 103/20-21 subject
to conditions contained in enclosed
No S.No. 103/20-21 Date 24/06/2020

TA, CE (R.R.N.)